Part 3

DESCRIPTION OF CHECKING AND ADJUSTMENT

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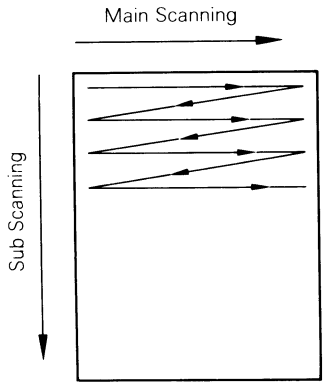
ADJUSTMENT OF THERMAL POWER

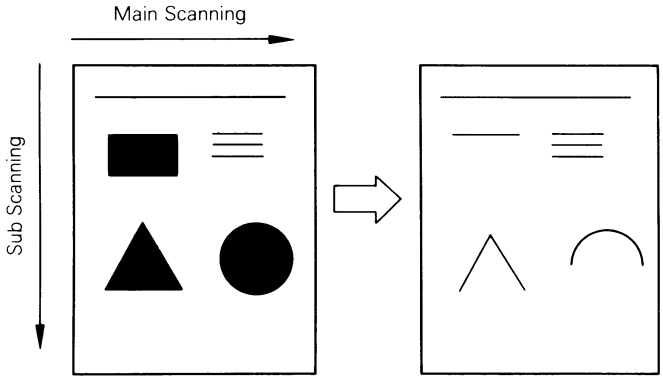
1. PROCESS OF THERMAL HEAD HEATING

1. Original Scanning consists of two Scanning operations: Main Scanning and Sub Scanning.
   (1) When the Image Scanner reads white areas of original, no Signal is sent to the Thermal Head, so that no Heat is applied to the Master.
   (2) When the Image Scanner reads black areas of original, Signals are sent to the Thermal Head, so that Heat is applied to the Master creating an Image on it.



(Fig. 1)

2. When an image is read as black by Main Scanning, the Thermal Head applies **the 1st Pulse** for heating. Then Sub Scanning is performed and after that the next Main Scanning is performed.
   If by the next Main Scanning the image on the same Sub Scanning line on that the image read as black by the previous Main Scanning is, is read as black again, the Thermal Head applies **the 2nd Pulse** for heating.



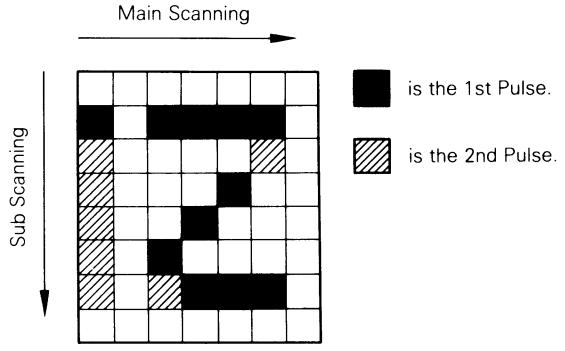
Only 1st Pulse
(Fig. 2)

3. The Thermal Head applies the 1st Pulse whenever an image is read as black by Main Scanning after the image on the same Sub Scanning line as that was read as white by the previous Main Scanning. Each after a white area, the Thermal Pulse is reset to **the 1st Pulse**.

(Example)

12

1st Pulse: Thin horizontal line
2nd Pulse: Vertical line
Solid



(Fig. 3)

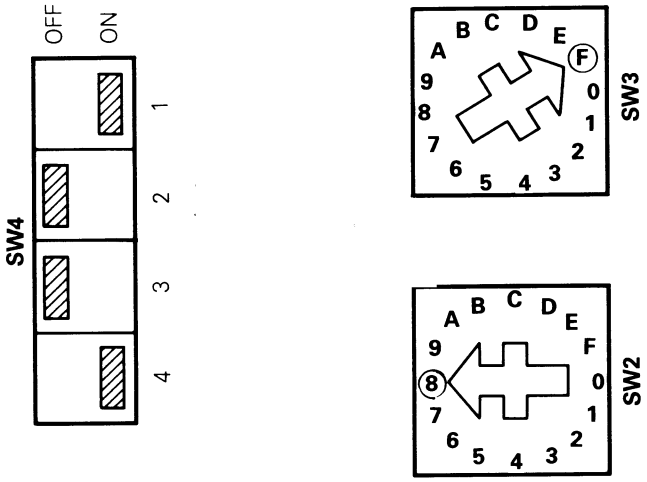
2. POWER SWITCH POSITION

<Do not touch them usually. Only when changing the Thermal Head or Powr Unit>

1st Pulse: SW4 (4, 3) + SW2
2nd Pulse: SW4 (2, 1) + SW3

SW4: ON = 1
OFF = 0

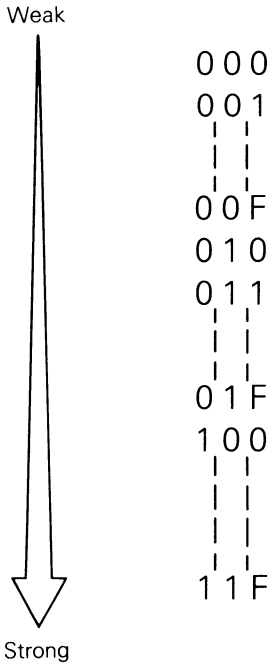
[EX.]
1st Pulse: 108
2nd Pulse: 01F



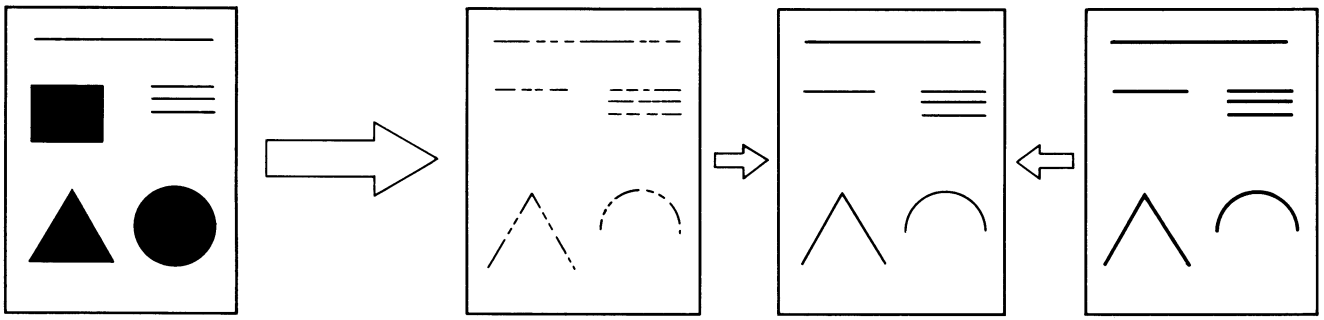
SW2, SW3; 1 step up = 0.011 ms. up
16 step up = 1 step up in SW4
(1 round)

!!ATTENTION!!
Do not set the Power SW under 006.

Heat Power = Heating Time

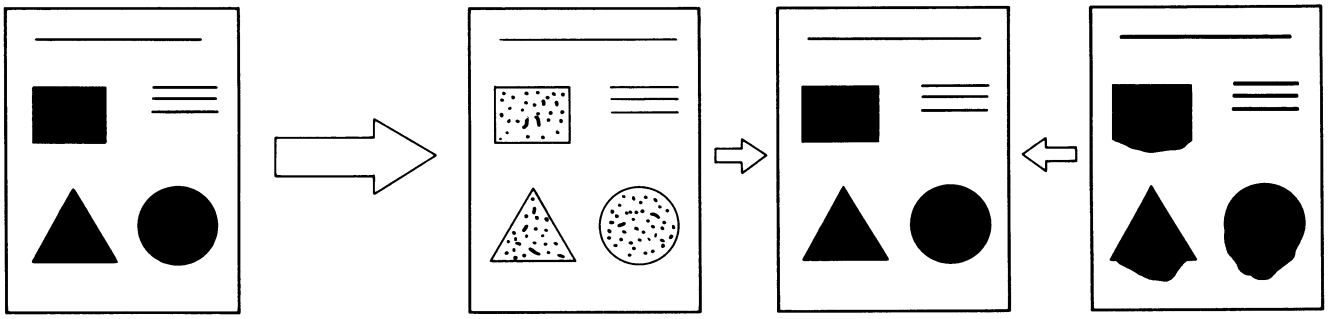


3. 1ST PULSE ADJUSTMENT



1. Reset **the 2nd Pulse** to **006** by using SW4 (2 + 1; ON-OFF type) and SW3 (Dial type).
2. Reset **the 1st Pulse** to **1 0 0** by using SW4 (4 + 3; ON-OFF type) and SW2 (Dial type).
3. Make a Master using the test chart No. 8 and check the resolution.
4. If image is weak, turn the Dial **(SW2)** two steps up and check the resolution. Repeat this procedure until you get good resolution.
5. After you have got good resolution, increase the Dial two more steps. (Finish)

4. 2ND PULSE ADJUSTMENT



1. Reset **the 2nd Pulse** to **0 1 8** using SW4 (2 + 1; ON-OFF type) and SW3 (Dial type).
2. Make a Master using the test chart No. 8 and check the resolution.
3. If solids are weak, turn the Dial **(SW3)** two steps up and check the resolution. Repeat this procedure until you get good solids.
4. After you have got good solids, increase the Dial two more steps. (finish)

!!ATTENTION!!
Be careful not to set the 1st and 2nd Pulses too high.
This will cause;
1st Pulse: Thin lines to thicken
2nd Pulse: The solids and bottom edge of image to deform.

OVERPOWER WILL CAUSE DAMAGE TO THE THERMAL HEAD.